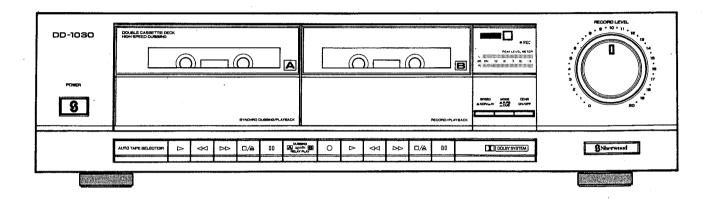
SERVICE MANUAL

DD-1030

STEREO DOUBLE CASSETTE DECK



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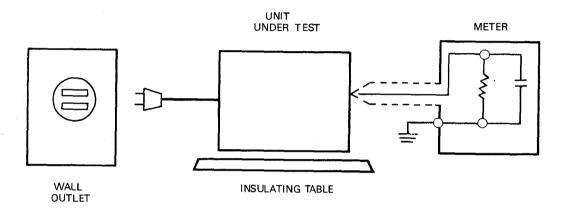
NOTICE

- This manual is for authorized and qualified service personnel, so the basic service procedure and commonsense of safety are not described in this manual.
- Sherwood always makes every endeavor to improve the products, therefore the specifications and data provided are subject to change without notice.



To Service Personnel

- 1. Critical Components Information.
 - The \triangle marked components on schematic diagram and parts list be replaced with the parts having specifications equal to these originally installed.
- 2. Leakage Current Measurement (For 120V Version only).
 - When the service has been completed, make sure that all exposed conductive surfaces are properly insulated from the power supply circuits.
 - Leakage current meter should have an input impedance of 1500 ohms resistive shunted by 0.15μF capacitor.
 - Leakage current shall not be exceed 0.5mA.



- 3. Turn the unit OFF, and disconnect the power supply cord during disassembly and replacement of parts.
- 4. When the service has been completed, be sure to check all protective device and spacings before returning the unit to customer.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" with in the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock hazard to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

7. Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Specifications

Description	Nominal
Track Configuration 4-Track, 2-Channel and Stereo recording playback tape head	
Motor Electronic governor controlled DC motor	
Mechanism Double deck mechanism 2-Head	
Heads REC/Playback Head: Hard Permalloy Erase Head: Double Gap Ferrite Core (886-01-07)	
Tape Speed 1 and 7/8ips (4.76 cm/sec), at 3kHz -4 dB (A. BEX), FWD/REV	3 kHz ± 30Hz
WOW and Flutter (W. RMS) (JIS 3kHz), (DIN 3.15kHz)	No more than 0.2%
Fast Winding Time, C-60	About 120 sec
Input Sensitivity/Impedance Line	70mV/47kohms
Output Level/Load Impedance Line	500mV/1.2kohms
Signal to Noise Ratio (W. CCIR/ARM) CrO ₂ tape with Dolby B NR CrO ₂ tape without Dolby B NR	More than 64 dB More than 56 dB
Frequency Response at -20 dB REC, Dolby NR Off Normal Tape CrO ₂ Tape Metal Tape	25Hz — 14.5kHz, ±3 dB 30Hz — 15.0kHz, ±3 dB 30Hz — 15.5kHz, ±3 dB
Total Harmonic Distortion at 1kHz, 0dB REC CrO ₂	No more than 2%
Channel Separation at 1kHz	More than 37 dB
Power Consumption	12 Watts
Dimensions (W)440×(H)118×(D)225 mm (W)17.3×(H)4.6×(D)8.8 inch	
Weight 3.5kg (7.8lbs)	•
Power Requirement A: USA & CANADIAN Version B: Multi-Voltage Version C: General EUROPEAN Version D: West GERMAN & ITALIAN Version E: BRITISH & AUSTRALIAN Version F: SWISS & SCANDINABIAN Version	120VAC/60Hz 120/220VAC, 60/50Hz 220VAC/50Hz 220VAC/50Hz 240VAC/50Hz 220VAC/50Hz

Note: Specifications and design subject to change without notice for improvments

Electrical Adjustment Procedure

Before Measurements and Adjustments

General Conditions

- The following general conditions apply to the electrical measurements and adjustments unless especilly stated otherwise.
- Before making adjustment, operate the appliance for more than 2 minutes.
- Ambient temperature 20 to 25 °C
- Dolby NR Switch off.
- The voltages have been measured relative to earth.
- Volume control recording level VR501 max.
- The measurements and adjustments are relate to the left-hand channel.
- The corresponding test points and adjusting elements for the right-hand channel are given in brackets.
- Since head magnetization, dust accumulation, etc. are likely to introduce in the various characteristics, it is very important that the heads are properly demagnetized and cleaned.
- Use 500mV for 0 dB as the standard level of the unit. (Line out)

 Proceed with the recording system adjustment after having finished the playback section adjustment.

2. Instruments required

- Audio frequency oscillator
- Frequency counter
- Oscilloscope
- ACVM or dual channel (ACVM,mV-meter)
- WOW/FLUTTER meter
- Oscilloscope

3. Test Cassette

- TCC-153 _____ Azimuth
 TCC-122 _____ Tape Speed, -10 dB
 TCC-130 _____ Playback Level (Dolby NR ref. tape)
 TCC-184 ____ Playback Frequency Response
- Reference Tape

Normal ____ TDK AD-60 CrO2 ___ TDK SA-60 Metal ___ TDK MAX-60

Playback Section

Adjustment	Test Tape	Mode	Apply Signal to	Measure on	Read on	Adjust with	Adjust to
Head Azimuth	TCC-153 10kHz (A. BEX)	Play		Line out	ACmV-meter Oscilloscope	Head adjusting screw (Left side)	Maximum *a • Lissajous figure become a straight line with an angle 45 degree
Head Azimuth	TCC-112 3kHz, -10dB (A. BEX)	Play		Line out	Wow and Flutter Meter & Frequency counter	VR403	*b 3,000Hz ± 30Hz
Playback Level	TCC-130 400Hz, 0 dB (A. BEX)	Play		Line out	ACmV-meter Oscilloscope	VR101L/R VR102L/R	500mV
Playback Frequency Response	TCC-184B 12.5k/1k/63 (A. BEX)	Play		Line out	ACmV-meter Oscilloscope		See graph fig. 2 Frequency Response

Recording Section

Adjustment	Test Tape	Mode	Apply Signal to	Measure on	Read on	Adjust with	Adjust to	
Bias Osc Frequency	MAX-60 (TDK)	REC/ PAUSE		White Color lead wire of CNT501	Frequency Counter	L502	105kHz	
105kHz trap Suppression	MAX-60 (TDK)			TP5L/R	ACmV-meter Oscilloscope	L501L/R	Minimum	
Target	Metal MAX-60	1112/11		90mV				
Value BIAS	CrO ₂					VR402	58mV	
	Normal	VR401		44mV 1				
Recording Level	AD-60		400Hz to Line	Line out		VR301L/R	About 7mV	*с
Bias	MAX-60 SA-60	REC/ PAUSE	400Hz to Line	Line out	ACmV-meter	See Target Value Bias	See fig. 3 if it necessary	*d
	AD-60 (TDK)		4kHz-6.3kHz 10kHz-12kHz 14kHz-16kHz to Line in		ency with the	mber of Frequsame input ay them back.	repeat bias adjustment	
Level Meter	Arbitrary Tape	REC/ PAUSE	400Hz to Line in	Dolby level point	ACmV-meter Oscilloscope	VR501		
19kHz suppression		REC/ PAUSE		Line input	ACmV-meter	LF Generator	70mV	
			19kHz to Line in	Line output	ACmV-meter Oscilloscope	L201L/R	Minimum	

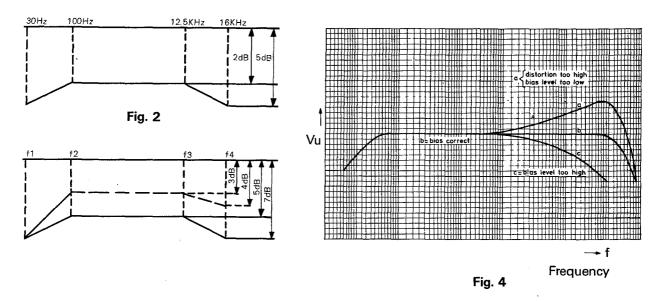
NOTE:

^{*}a. Prior to any mearsurement or adjustment with the tape running, heads and tape guides should be degaussed and cleand. Referance below the figure.

^{*}b. The maximum permissible speed variation $\pm 0.5\%$. Moreover the Wow and Flutter can be read. This value should not exceed 0.2%.

^{*}c. The voltage on Line out should read $500\text{mV} \pm 20\text{mV}$. If this is not the case reduce the LF signal (bias disabled) by as many dB's as the reading was too low or too high by means of VR301L/R.

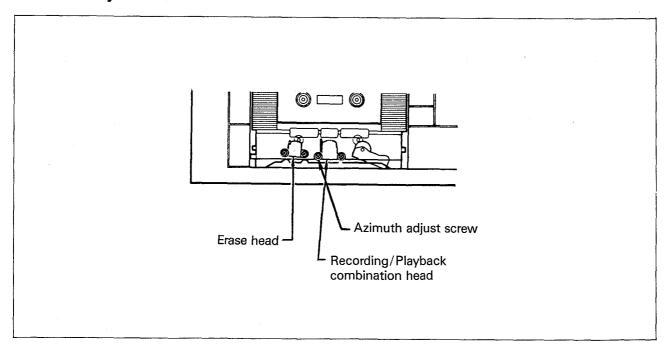
^{*}d. When the channel is adjusted, this may slightly affect the adjustment of the other channel. If the adjustment is correct, the frequency response curve will be similar to curve b in figure 4, distortion below 3%.



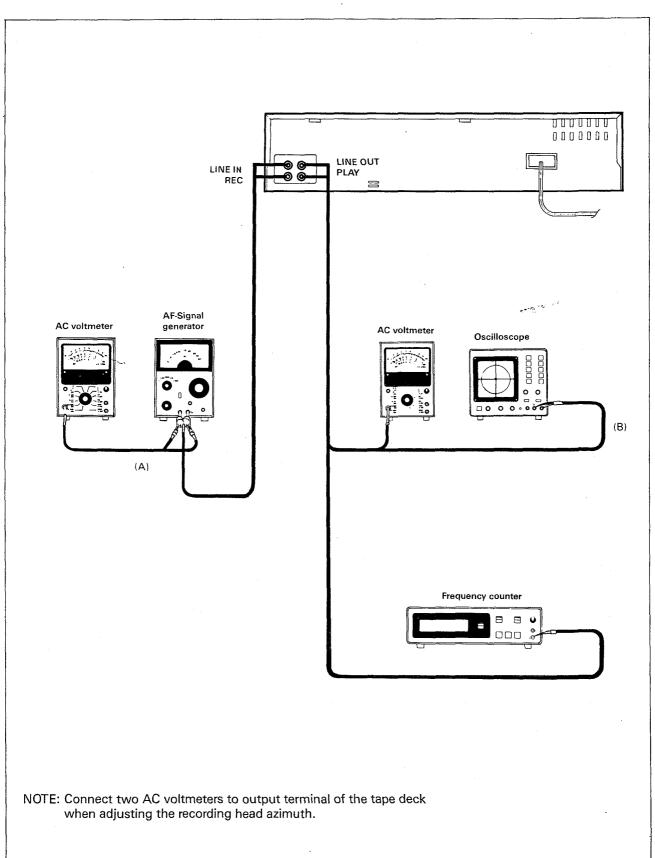
	f1	f2	f3	f4
Metal	30Hz	100Hz	12.5kHz	15.5kHz
CrO2	30Hz	100Hz	12.5kHz	15.0kHz
Normal	30Hz	100Hz	12.5kHz	14.5kHz

Fig. 3

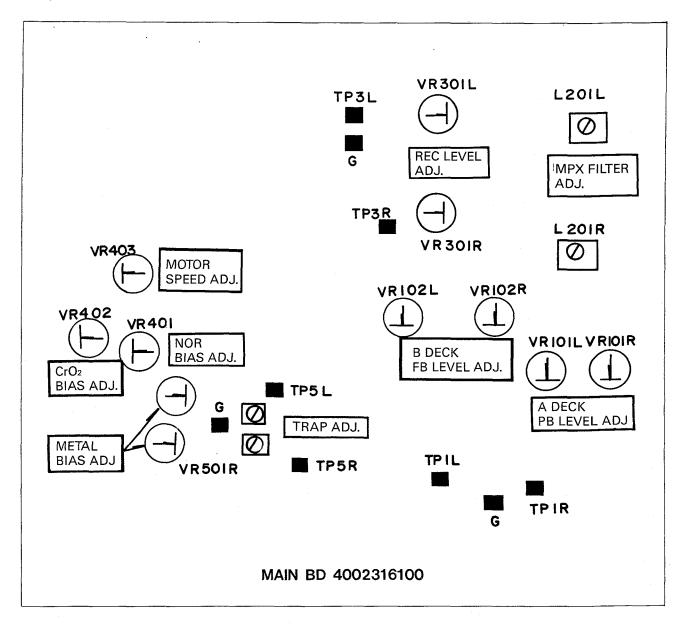
Azimuth Adjustment Point



Test Equipment Connections



Adjustments Point



Electrical Parts List

Ref. No	Part No.	Description	Position Remark
MAIN BO	ARD 40023161	00	
Capacito	rs		
C102L/R	3579331130	Ceramic 330PF 50V J	E4/E4
C103L/R	3579471130	Ceramic 470PF 50V J Electric SA 1μF 50V M	E4/E4
C104L/R C105L/R	3479210971 3479221130	Electric SA 1μF 50V M Ceramic 220PF 50V J	E4/E4 E4/E4
C1062/11	3479247031	Electric SA 47µF 16V M	E4/E4
C107L/R	3679822120	Mylar 0.882μF 100V J	E4/E4
C108L/R	3479233031	Electric SA 33μF 16V M	E3/E3
C109L/R	3479247971	Electric SA 4.7μF 50V M	E3/E3
C110L/R	3479158120	Mylar 0.015μF 100V J	E3/E3
C111 C112L/R	3479210061 3579821230	Electric SA 10µF 35V M Ceramic 820PF 50V J	E2 D3/D4
C113L/R	3479210971	Electric SA 1 _µ F 50V M	D3/D3
C114L/R	3579221130	Ceramic 220PF 50V J	D3/D3
C115	3479247031	Electric SA 47μF 16V M	D3/D3
C116	3479233031	Electric SA 33μF 16V M	D3/D3
C117	3479247031	Electric SA 47μF 16V M	D3/D3
C118L/R C119L/R	3679822120 3479233031	Mylar $0.008\mu\text{F}$ 100V J Electric SA $33\mu\text{F}$ 16V M	D3/D3 D3/D3
C120L/R	3479247971	Electric SA 4.7 F 50V M	D3/D3
C121L/R	3579158120	Mylar 0.015μF 100V J	D3/D3
C122	3479247031	Electric SA 47μF 16V M	D2
C201L/R	3479247971	Electric SA 4.7μF 50V M	E1/E2
C202L/R	3479247971	Electric SA 4.7μF 50V M	E1/E2
C203L/R	3679393120	Mylar 0.039 pF 100V J	E1/E2
C204L/R C205L/R	3479233031 3479247971	Electric SA 33μ F 16V M Electric SA 4.7μ F 50V M	E1/E2 E1/E2
C206L/R	3579561130	Ceramic 560PF 50V J	E1/E2
C207L/R	3479247971	Electric SA 4.7μF 50V M	E1/E2
C208	3479222041	Electric SA 22µF 50V M	E2
C209L/R	3479222871	Electric SA 0.22µF 50V M	D1/D2
C210L/R C211L/R	3479247971 3479247971	Electric SA 4.7μ F 50V M Electric SA 4.7μ F 50V M	D1/D2 D1/D1
C211L/N	3479210061	Electric SA 10µF 35V M	E1
C213	3479233031	Electric SA 33µF 16V M	E1
C214	3479233031	Electric SA 33μF 16V M	E1
C301L/R	3679393120	Mylar 0.039μF 100V J	D1/D2
C302L/R	3679682120	Mylar 0.0068μF100V J	D1/D2
C303L/R C304L/R	3479210971 3479247871	Mylar 1μF 100V J Mylar 0.47μF 100V J	D1/D2 C1/C1
C305L/R	3479247871	Mylar 0.47μF 100V J	C1/C1
C306L/R	3479210061	Electric SA 10µF 35V M	C1/C2
C307L/R	3479233031	Electric SA 33μF 16V M	C1/C2
C308L/R	3679223120	Mylar 0.022μF 100V J	C1/C2
C309L/R C310	3679233120 3409210131	Mylar 0.022μF 100V J Electric SA 100μF 16V M	C1/C2 C2
C310	3479210131	Electric SA 100µF 16V M	B1
C312	•	Not used!	
C313	3479210061	Electric SA 10μF 35V M	C2
C401	3479210061	Electric SA 10μF 35V M	C3
C402	3479210061	Electric SA 10 F 35V M	B3
C403 C404	3479210061 3479210061	Electric SA 10μF 35V M Electric SA 10μF 35V M	A3 A3
C404 C405	3479210061	Electric SA 10μF 35V M Electric SA 10μF 35V M	B3
C406	3409210131	Electric SA 100μF 16V M	B3
C407	3579104534	Ceramic 0.1µF 50V J	B1
C408	3409247169	Electric SA 470μF 35V M	A2
C409	3409247149	Electric SA 470μF 25V M	A2
C410	3479210061	Electric SA 10μF 35V M	A2
C411 C501L/R	3579104534 3479247971	Ceramic 0.1μF 50V J Electric SA 4.7μF 50V M	A1 B3/B4
C501L/R	3579221130	Ceramic 220PF 50V J	A3/A4
1	20,3		1 1

C503 3679562120 Mylar 0.0056μF100V J A4 C504 3679103120 Mylar 0.01μF 100V J A4 C506 3679103120 Mylar 0.01μF 100V J A4 C507 3679103120 Mylar 0.01μF 100V J A4 C508 3609272130 Electric SA 4.7μF 50V M A3 C508 3609272130 Electric SA 0.47μF 50V M A3 • Coils L201L/R 2658501080 L50TR 2658501080 L50TR C1/C2 C1/C2 L501L 2658501080 L50TR A5mH C1/C2 B3 L501L 2658501080 B6KHz, Record Trap B4 B5 L501L 4228505610 Plug 4P E4 E4 CNT101 44285505610 Plug 2P D4 D4 CNT102L/R 4428517910 Plug 6P B3 B3 CNT403 4428517310 Plug 2P A1 A1	Ref. No	Part No.	Description	Position Remark
C504 3679103120 Mylar 0.01μF 100V J A4 C506 3679103120 Mylar 0.01μF 100V J A4 C507 3479247971 Electric SA 4.7μF 50V M A3 C508 3609272130 Electric SA 4.7μF 50V M A3 C508 3609272130 Electric SA 4.7μF 50V M A3 C508 3609272130 Electric SA 4.7μF 50V M A3 C508 360801310 MPX Filter 50V M A3 L201L/R 2658501080 65kHz, Record Trap B3 B4 L501L 2658501080 65kHz, Record Trap B4 B4 L501L 2658501080 105kHz, Bias OSC A3 A2 CNT101 44285056610 Plug 4P D4 C1/C2 CNT201 4428517610 Plug 2P D4 C1/C2 CNT101 4428517910 Plug 4P A1 A1	C503	3679562120	Mylar 0.00564F100V J	A4
C506 3679562120 Mylar 0.0056μF100V J A4				
C506 3679103120 Mylar 0.01μF 100V J A4 C507 3479247971 Electric SA 4.7μF 50V M A3 • C508 3609272130 Electric SA 0.47μF 50V M A3 • Coils L201L/R 2688301140 MPX Fitter E1/E2 C1/C2 L301L/R 2688601300 105kHz, Record Trap B3 B3 L501L 2658501080 65kHz, Record Trap B3 L501Z 2638601150 65kHz, Record Trap B3 L501Z 4285656100 65kHz, Record Trap B4 L501Z 428517610 Plug 2P D4 CNT101 4428517610 Plug 2P D4 CNT402 4428517910 Plug 6P B3 CNT403 4428517910 Plug 4P A1 CNT404 4428517710 Plug 4P A1 CNT405 4285177510 Plug 2P A3 Piodes 42 Not used 1 C	1			A4
C507 3479247971 Electric SA 4.7µF 50V M A3 A3 C508 3609272130 Electric SA 0.47µF 50V M A3 C108 C201L/R 2658501080 A5mH C1/C2 2658501080 2658501080 105kHz, Record Trap B3 L501R 2658501080 65kHz, Record Trap B4 L501R 265850190 105kHz, Bias OSC A3 C0NT101 4428505610 Plug 4P B4 CNT201 4428517610 Plug 2P D4 CNT201 4428517910 Plug 6P B3 CNT403 4428517910 Plug 4P A1 CNT404 4428517910 Plug 4P A1 CNT404 4428517910 Vive Trap 5P D1 CNT405 Not used ! Plug 2P A3 Diodes D401/D301 2058306101 N 4148, Switching C3 CNT601 4428517510 D23.38M, Zenet C2 D406 2058306101 N 4148, Switching C3 D402 2058306101 N 4148, Switching C3 D403 2058306101 N 4148, Switching C3 D404 2058599100 D23.38M, Zenet C2 D405 2058306101 N 4002, Rectifier A2 D407 2058100600 N 4002, Rectifier A2 D408 2058100600 N 4002, Rectifier A1 D401 2058599100 D23.38M, Zener B2 D401 2058599100 D23.38M, Zener B2 • ICs C101 2168006104 KIA8125S, Dual OP Amp B1 C1010 2168006105 Garbon Film 100k 1/5W J E4 R103L/R 3069104970 Carbon Film 100k 1/5W J E3 R106L/R 306933970 Carbon Film 100k 1/5W J E3 R101L/R 306933970 Carbon Film 100k 1/5W J E3 R1111 R141/R 306933970 Carbon Film 100k 1/5W J E3 R1112L/R 306933970 Carbon Film 100k 1/5W J E3 R1114L/R 306933970 Carbon Film 100 1/5W J E4 C1010				1
Coils				1 1 1 1
L201L/R 2688301140				I ' I
L301L/R 2648601310 2658501080 65KHz, Record Trap B3 65KHz, Record Trap B4 105KHz, B4 10	• Coils			
L501L 2658501080 105kHz, Record Trap B3 65kHz, Record Trap B4 105kHz, Bias OSC A3	L201L/R	2658301140	MPX Filter	
L501R	L301L/R	2648601310		
CNT101 4428505610 Plug 4P E4 CNT1021 4428517610 Plug 2P D4 CNT201 4428512510 Wire Trap 5P E1 CNT401 4428518310 Plug 6P B3 CNT402 4428517710 Plug 10P A2 CNT403 4428517710 Plug 4P A1 CNT404 4428517510 Plug 4P A1 CNT405 . More Trap 5P D1 CNT404 4428517510 Plug 2P A3 * Diodes *** *** D401/D301 2058306101 1N 4148, Switching C3 D402 2058306101 1N 4148, Switching C3 D404 20585906101 1N 4148, Switching C3 D404 2058306101 1N 4148, Switching C3 D406 2058100600 1N 4002, Rectifier A2 D407 2058100600 1N 4002, Rectifier A2 D408 2058100600 1N 4002, Rectifier A1	L501L	2658501080		B3
COnnectors Plug 4P E4 CNT101 4428505610 Plug 4P E4 CNT1021/R 4428517610 Plug 2P D4 CNT201 44285127910 Plug 6P B3 CNT402 4428518310 Plug 10P A2 CNT403 4428517710 Plug 4P A1 CNT404 44285252510 Wire Trap 5P D1 CNT405 - Not used! - CNT501 4428517510 Plug 2P A3 D401/D301 2058306101 TN 4148, Switching C3 D402 2058306101 TN 4148, Switching C3 D403 2058306101 TN 4148, Switching C3 D404 2058599100 D23.38M, Zener C2 D405 2058306101 TN 4148, Switching C3 D406 2058100600 TN 4002, Rectifier A2 D407 2058100600 TN 4002, Rectifier A2 D409 2058100600 TN 402, Rectifier A1 <td< td=""><td></td><td></td><td></td><td>1 1</td></td<>				1 1
CNT101			105kHz, Bias OSC	A3
CNT102L/R	<u> </u>			
CNT201	1			1
CNT401	1			1
CNT402				1 1
CNT403				1 1
CNT404	1			
CNT405 CNT501 4428517510 Not used! Plug 2P A3 • Diodes D401/D301 2058306101 1N 4148, Switching C3/B1. D402 2058306101 1N 4148, Switching C3 D403 2058306101 1N 4148, Switching C3 D404 2058599100 DZ3.3BM, Zener C2 D405 2058100600 1N 4402, Rectifier A2 D407 2058100600 1N 4002, Rectifier A2 D408 2058100600 1N 4002, Rectifier A1 D409 2058100600 1N 4002, Rectifier A1 D410 2058100600 1N 4002, Rectifier A1 D411 2058599100 1N 4002, Rectifier A1<				I i
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D402 2058306101 1N 4148, Switching C3 D403 2058306101 1N 4148, Switching C3 D404 2058599100 DZ3.3BM, Zener C2 D405 2058306101 1N 4148, Switching C3 D406 2058100600 1N 4002, Rectifier A2 D407 2058100600 1N 4002, Rectifier A2 D408 2058100600 1N 4002, Rectifier A1 D409 2058100600 1N 4002, Rectifier A1 D410 2058100600 1N 4002, Rectifier A1 D410 2058100600 1N 4002, Rectifier A1 D411 2058599100 DZ3.3BM, Zener B2 IC101 216806104 KIA8125S, Dual OP Amp B2 IC201 2168006104 KIA8125S, Dual OP Amp D3 IC201 2168006104 KIA8125S, Dual OP Amp B1 IC201 2168001105 GD7815, Regulator IC E2 R102L/R 3069104970 Carbon Film 100k 1/5W J E4	ļ 	2058306101	1N 4148 Switching	C3/B1
D403 2058306101 1N 4148, Switching C3 D404 2058599100 DZ3.3BM, Zener C2 D405 2058306101 1N 4148, Switching C3 D406 2058100600 1N 4002, Rectifier A2 D407 2058100600 1N 4002, Rectifier A2 D409 2058100600 1N 4002, Rectifier A1 D410 2058100600 1N 4002, Rectifier A1 D410 2058100600 1N 4002, Rectifier A1 D410 2058100600 1N 4002, Rectifier A1 D411 2058599100 DZ3.3BM, Zener B2 ICS ICICs B2 ICIO1 2168006104 KIA8125S, Dual OP Amp E4 IC201 2168006104 KIA8125S, Dual OP Amp D3 IC201 21680011133 HA12316, Dolby IC E2 IC301 21680020101 NJM4560S, Dual OP Amp B1 IC401 2168001105 GD7815, Regulator IC A1 • Resistors R102L/R 3	,	·		
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D411 2058599100 DZ3.3BM, Zener B2 • ICs IC101 2168006104 KIA8125S, Dual OP Amp E4 IC102 2168006104 KIA8125S, Dual OP Amp D3 IC201 2168011133 HA12316, Dolby IC E2 IC301 2168020101 NJM4560S, Dual OP Amp B1 IC401 2168601105 GD7815, Regulator IC A1 • Resistors R102L/R 3069104970 Carbon Film 100k 1/5W J E4 R103L/R 3069104970 Carbon Film 200k 1/5W J E3 R104L/R 3069104970 Carbon Film 390k 1/5W J E3 R105L/R 3069121970 Carbon Film 120 1/5W J E3 R106L/R 3069121970 Carbon Film 120 1/5W J E3 R108L/R 3069332970 Carbon Film 560 1/5W J E3 R109L/R 3069472970 Carbon Film 4.7k 1/5W J E3 R111L/R 3069333970 Carbon Film 100k 1/5W J E3 R112L/R 3069333970 Carbon Film 33k 1/5W J E3 <	D410	2058100600		A1
C101	D411	2058599100		B2
IC102	• ICs			
C201	IC101	2168006104	KIA8125S, Dual OP Amp	E4
Carbon Film 100k 1/5W J	IC102	2168006104	KIA8125S, Dual OP Amp	D3
IC401 2168601105 GD7815, Regulator IC A1 • Resistors R102L/R 3069104970 Carbon Film 100k 1/5W J E4 R103L/R 3069104970 Carbon Film 100k 1/5W J E4 R104L/R 3069394970 Carbon Film 390k 1/5W J E3 R105L/R 3069183970 Carbon Film 18k 1/5W J E3 R106L/R 3069121970 Carbon Film 120 1/5W J E3 R107 3069561970 Carbon Film 560 1/5W J E3 R108L/R 3069332970 Carbon Film 3.3k 1/5W J E3 R109L/R 3069472970 Carbon Film 4.7k 1/5W J E3 R110L/R 3069333970 Carbon Film 33k 1/5W J E3 R112L/R 3069333970 Carbon Film 33k 1/5W J E3 R113 3069472970 Carbon Film 4.7k 1/5W J E3 R114L/R 3069332970 Carbon Film 3.3k 1/5W J E3 R115L/R 3069101970 Carbon Film 4.7k 1/5W J D4 R116L/R 3069102970 Carbon Film 100 1/5W J D4 R117L/R - 3069102970 Carbon Film 1k 1/5W J D4	IC201	2168011133	HA12316, Dolby IC	E2
Resistors R102L/R	IC301	2168020101	NJM4560S, Dual OP Amp	B1
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R103L/R 3069104970 Carbon Film 100k 1/5W J E4 R104L/R 3069394970 Carbon Film 390k 1/5W J E3 R105L/R 3069183970 Carbon Film 18k 1/5W J E3 R106L/R 3069121970 Carbon Film 120 1/5W J E3 R107 3069561970 Carbon Film 560 1/5W J E3 R108L/R 3069332970 Carbon Film 560 1/5W J E3 R109L/R 3069472970 Carbon Film 4.7k 1/5W J E3 R110L/R 3069104970 Carbon Film 100k 1/5W J E3 R111L/R 3069333970 Carbon Film 33k 1/5W J E3 R112L/R 3069333970 Carbon Film 33k 1/5W J E3 R113 3069472970 Carbon Film 4.7k 1/5W J E3 R114L/R 3069332970 Carbon Film 3.3k 1/5W J E2 R115L/R 3069101970 Carbon Film 4.7k 1/5W J D4 R116L/R 3069101970 Carbon Film 100 1/5W J D4 R117L/R - 3069102970 Carbon Film 1k 1/5W J D4	• Resistors	3		
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R108L/R 3069332970 Carbon Film 3.3k 1/5W J E3 R109L/R 3069472970 Carbon Film 4.7k 1/5W J E3 R110L/R 3069104970 Carbon Film 100k 1/5W J E3 R111L/R 3069333970 Carbon Film 33k 1/5W J E3 R112L/R 3069333970 Carbon Film 33k 1/5W J E3 R113 3069472970 Carbon Film 4.7k 1/5W J E3 R114L/R 3069332970 Carbon Film 3.3k 1/5W J E2 R115L/R 3069472970 Carbon Film 4.7k 1/5W J D4 R116L/R 3069101970 Carbon Film 100 1/5W J D4 R117L/R - 3069102970 Carbon Film 1k 1/5W J D4				1
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R110L/R 3069104970 Carbon Film 100k 1/5W J E3 R111L/R 3069333970 Carbon Film 33k 1/5W J E3 R112L/R 3069333970 Carbon Film 33k 1/5W J E3 R113 3069472970 Carbon Film 4.7k 1/5W J E3 R114L/R 3069332970 Carbon Film 3.3k 1/5W J E3 R115L/R 3069472970 Carbon Film 3.3k 1/5W J E2 R116L/R 3069101970 Carbon Film 4.7k 1/5W J D4 R117L/R 3069102970 Carbon Film 100 1/5W J D4 R117L/R 3069102970 Carbon Film 1k 1/5W J D4				1 1.
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R117L/R • 3069102970 Carbon Film 1k	1	1		1 1
D1101 /D 10001404070 C-draw Eller 4001 4 /ENV 1 C4	(1	1 ' '
R118L/R 3069104970 Carbon Film 100k 1/5W J C4 R119 3069472970 Carbon Film 4.7k 1/5W J D3	1	l		
R119 3069472970 Carbon Film 4.7k 1/5W J D3	פוות	30034/23/0	Carbon Finn 4./K 1/5VV J	D3

Ref. No	Part No.	Descript	ion	Position	Remark	Ref. No	Part No.	Description	Position	Remark
R120L/R	3069394970	Carbon Film 390k	1/5W J	D3		R415	3069202970	Carbon Film 2k 1/5W J	A3	
R121L/R	3069183970	Carbon Film 18k	1/5W J	D3		R416	3069472970	Carbon Film 4.7k 1/5W J	B3	
R122L/R	3069121970	Carbon Film 120	1/5W J	D3		R417	3069222970	Carbon Film 2.2k 1/5W J	B3	
R123	3069561970	Carbon Film 560	1/5W J	D3		R418	3069472970	Carbon Film 4.7k 1/5W J	B3	
R124L/R	3069332970	Carbon Film 3.3k	1/5W J	D3		R419	3069103970	Carbon Film 10k 1/5W J	B2	·
R125L/R	3069472970	Carbon Film 4.7k	1/5W J	D3		R420	3069242970	Carbon Film 2.4k 1/5W J	A3	
R126L/R	3069104970	Carbon Film 100k		D3		R421	3069471970	Carbon Film 470 1/5W J	A2	
R127L/R	3069103970	Carbon Film 10k	1/5W J	D2		R422	3069223970	Carbon Film 22k 1/5W J	B2	
R128	3069472970	Carbon Film 4.7k	1/5W J	D2		R423	3069102970	Carbon Film 10k 1/5W J	B2	
R201L/R	3069242970	Carbon Film 2.4k	1/5W J	E1/E2		R424	3069332970	Carbon Film 3.3k 1/5W J	B2	
				ļ		R425	3069102970	Carbon Film 10k 1/5W J	B2	
R202L/R	3069104970	Carbon Film 100k	1/5W J	E1/E2		R426	3069104970	Carbon Film 100k 1/5W J	B2	
R203L/R	3069104970	Carbon Film 100k	1/5W J	E1/E2		R427	3069472970	Carbon Film 4.7k 1/5W J	B1	
R204L/R	3069102970	Carbon Film 1k	1/5W J	E1/E2		R428	3069472970	Carbon Film 4.7k 1/5W J	B1	
R205L/R	3069472970	Carbon Film 4.7k	1/5W J	E1/E2		R429	3069821970	Carbon Film 820 1/5W J	B1	
R206	3069473970	Carbon Film 47k	1/5W J	D2		R430	3069102970	Carbon Film 1k 1/5W J	B1	
R207	3069562970	Carbon Film 5.6k	1/5W J	E2		R431	3069220970	Carbon Film 22 1/5W J	A1	
R208	3069223970	Carbon Film 22k	1/5W J	E2		R432L/R	3069392970	Carbon Film 3.9k 1/5W J	C1	
R209	3069183970	Carbon Film 18k	1/5W J	E2		R433	3069472970	Carbon Film 4.7k 1/5W J	B2	
R210L/R	3069562970	Carbon Film 5.6k	1/5W J	E1						
R211L/R	3069473970	Carbon Film 47k	1/5W J	E1/E2		R501L/R	3069562970	Carbon Film 5.6k 1/5W J	B3	
R212	3069223970	Carbon Film 22k	1/5W J	E1		R502	3069333970	Carbon Film 33k 1/5W J	A4	
R213	3069223970	Carbon Film 22k	1/5W J	E1		R503	3069333970	Carbon Film 33k 1/5W J	A4	
R214		Not used !				R504	3069100970	Carbon Film 10 1/5W J	A4	
R215	3069561970	Carbon Film 560	1/5W J	E1		 		1		
R216L/R	3069202970	Carbon Film 2k	1/5W J	D1		Transisto	ers			
R217L/R	3069103970	Carbon Film 10k	1/5W J	D1		Q101L/R	2208622106	NPN DTC 114YS	E4/E4	
R218L/R	3069183970	Carbon Film 18k	1/5W J	E1		Q102L/R	2208622106	NPN DTC 114YS	E3/E3	
						Q103L/R	2008609101	MPS A05	D4/D4	
R301	3069103970	Carbon Film 10k	1/5W J	D2		Q104L/R	2008609101	MPS A05	D4/D4	
R302L/R	3069103970	Carbon Film 10k	1/5W J	D1/D2		Q105L/R	2008610102	2SA 1302S	D4/D4	
R303L/R	3069332970	Carbon Film 3.3k	1/5W J	D1/D2			2038406101	KTC2878, (or can use)	D4/D4	
R304L/R	3069332970	Carbon Film 3.3k	1/5W J	D1/D2		Q106L/R	2008610102	2SA 1302S	D3/D3	
R305L/R	3069182970	Carbon Film 1.8k	1/5W J	D1			2038406101	KTC2878, (or can use)	D3/D3	
R306	3069682970	Carbon Film 6.8k	1/5W J	C1		Q107L/R	2208622106	NPN DTC 114YS	D3/D3	
R307L/R	3069123970	Carbon Film 12k	1/5W J	C1/C2		Q201L/R	2208606104	KTC 1815Y	E1/E2	
R308L/R	3069104970		1/5W J	C1/C2		Q301L/R	2208606104	KTC 1815Y	D1/D2	
R309L/R	3069392970	Carbon Film 3.9k	1/5W J	C1/C2		Q302L/R	2208622106	NPN DTC 114YS	D1/D1	
R310L/R	3069151970	Carbon Film 150	1/5W J	C1/C2		Q303L/R	2208622106	NPN DTC 114YS	C2	
R311L/R	3069151970	Carbon Film 150	1/5W J	C1/C2		Q304L/R	2208622106	NPN DTC 114YS	C1	
R312L/R	3069822970		1/5W J	C1/D2		Q305L/R	2208622106	NPN DTC 114YS	B1/C2	
R313L/R	3069104970	Carbon Film 100k		C1/D2		Q306L/R	2208622106	NPN DTC 114YS	C1/C2	
R314L/R	3069562970	Carbon Film 5.6k		C1/D2						
R315L/R	3069472970	Carbon Film 4.7k		C1/C2		Q401	2208622106	NPN DTC 114YS	C3	
R316	3069103970	Carbon Film 10k	1/5W J	C2		Q402	2008209101	MPS A55	C3	
R317	3069103970	Carbon Film 10k	1/5W J	C2		Q403	2208622106	NPN DTC 114YS	B3	
R318	3069561970	Carbon Film 560	1/5W J	B2		Q404	2208622106	NPN DTC 114YS	A3	
R319		Not used!				Q405	2208622106	NPN DTC 114YS	A3	
R320L/R	3069104970	Carbon Film 100k	1/5W J	C1/C2		Q406	2208622106	NPN DTC 114YS	B2	
R321	3069472970	Carbon Film 4.7k		D2		Q407	2208622106	NPN DTC 114YS	B2	
R401	3069103970	Carbon Film 10k	1/5W J	C3		Q408	2208622108	NPN DTC 114YS	B2	
R402	3069103970	Carbon Film 10k	1/5W J	C3		Q409	2208606104	KTC 1815Y	B2	
R403	3069223970	Carbon Film 22k	1/5W J	C3		Q410	2208606104	KTC 1815Y	B1	
R404	3069223970	Carbon Film 22k	1/5W J	C3		Q411	2208622108	DTC 114TS	B1	
R405	3069223970	Carbon Film 22k	1/5W J	C3		Q412	2208206105	KTA 1015Y	B1	
R406	3069101970	Carbon Film 100	1/5W J	C3		Q413L/R	2008610102	2SD 1302S	C1	
R407	3069472970	Carbon Film 4.7k	1/5W J	C2			2038406101	KTC2878, (or can use)	Ci	
R408	3069473970	Carbon Film 47k	1/5W J	C3		Q414	2028406121	KTD 1406	A3	
R409	3069103970	Carbon Film 10k	1/5W J	C3		Q501	2008609101	MPS A05	A4	
R410	3069101970	Carbon Film 100	1/5W J	C3		Q502	2008609101	MPS A05	A4	
R411	3069472970	Carbon Film 4.7k		B3			l .	07100	_ 	
R412		Not used!	.,	1.		Variable	Resistors			
	}	1	1/5\\/ I	B3		VR101L/R	3248322320	Semi 22k(B)	E3	
1 R413	3069222970	I Carbon Film 7.7K					,	1		
R413 R414	3069222970 3069472970	Carbon Film 2.2k Carbon Film 4.7k		A3		VR102L/R	3248322320	Semi 22k(B)	D2	

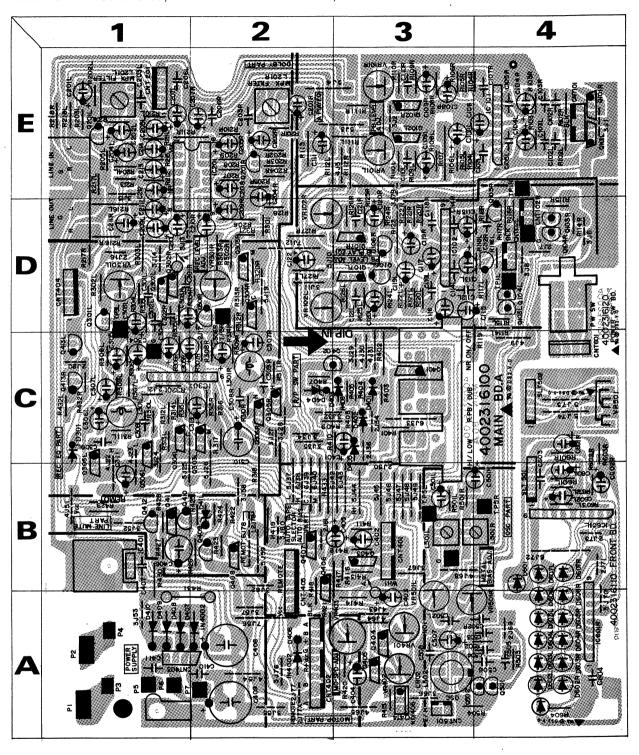
Ref. No.	Part No.	Description	Position	Remark			
VR301L/R VR401 VR402 VR403 VR501L/R	3248310320 3248310320 3248310320 3248310320 3248322420	Semi 10k(B) Semi 22k(B) Semi 22k(B) Semi 2.2k(B) Semi 220k(B)	D1/D2 A3 A3 A3 A3				
Miscella	Miscellaneous Parts						
P1 - P2 P3 - P7 TP1L/R	4225001410 4225000315 4225000315 4855000111	Solder Terminal Pin Wrapping Pin Wrapping Pipe-Ceramic,White		W/R431			

Ref. No.	Part No.	Description	Position	Remark
FRONT BO	DARD 4002316	110		
Capacito	ors			
C601L/R C602L/R C603 C604	3479247971 3479210061 3579104534 3579104534	Electric SA $4.7\mu F$ 50V M Electric SA $10\mu F$ 35V M Ceramic $0.1\mu F$ 50V J Ceramic $0.1\mu F$ 50V J		
• LEDs	<u> </u>			
D601 D602L/R D603L/R D604L/R D605L/R D606L/R D607L/R	2308220130 2308221105 2308221105 2308221105 2308221105 2308220127 2308220123	SLV 56URC3 SLR 34DC3 SLR 34DC3 SLR 34DC3 SLR 34DC3 SLR 34URC7 SLR 34URC7		
• ICs			L	
IC601L/R	2168022114	BA6124, LCD Driver		
Resistors	3			
R601L/R R602L/R R603L/R R604	3069393970 3069183970 3069103970 3069561970	Carbon Film 39k 1/5W J Carbon Film 18k 1/5W J Carbon Film 10k 1/5W J Carbon Film 560 1/5W J		
Miscella	neous Parts			
SLT501 SLT502 CNT601 CNT601 CNT601 CNT601 CNT601	4119105266 4119105266 4355029540 2828042007 2828045801 2828045201 2828048201	Slat Wire 5P, 260mm Slat Wire 5P, 260mm Connector Ass'y 4P 350mm Power Transformer Power Transformer Power Transformer Power Transformer		A B C,D,F E

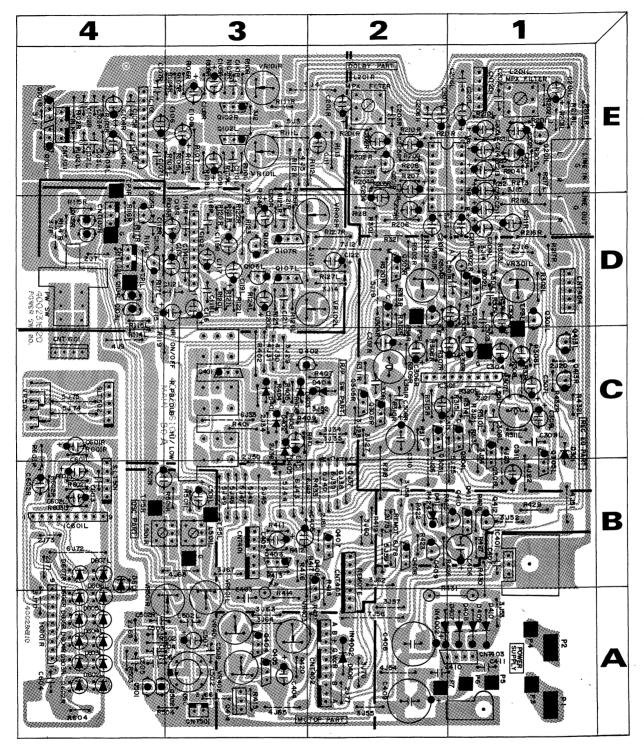
Top & Bottom View of P.C Boards

MAIN BOARD 4002316100, FRONT BOARD 4002316110, POWER BOARD 4002316120

- TOP VIEW



-BOTTOM VIEW

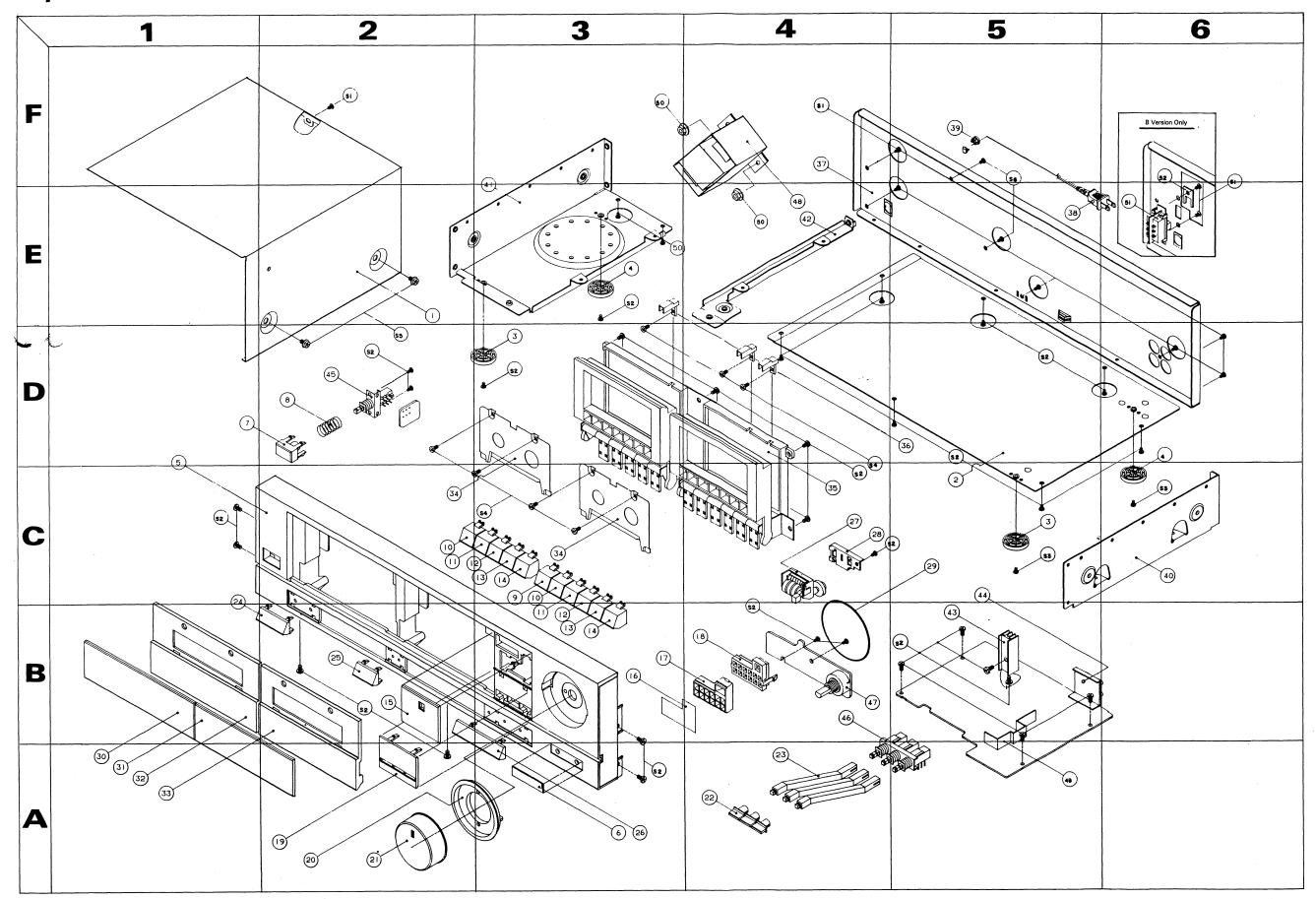


Mechanical Parts List

1 046122015711 Cover Top	No.	Parts No.	Description	Position	Q'ty	Remark
3		046122015711	Cover Top ,		1	
4 6035101510 Base Foot W/Cushion, Black E3, D3		6122414010			1	
Front Panel D1	1 1					
6 048536019011 Name Badge	1 1					
7 04854048211 Button Power D1						
September Spring Spring			· ·			
9				1		
10					1 .	
11	1)				
13						
13	1 1				2	
14	, ,				2	
16	14				2	
17	15	048555019312	LED Window	B2	1	
18	16				1	
19	1 1					
20				l I		
21	1 1					
22						
23	1 1					
24					3	
25	, ,					
26	1 1					
27 5318001410						
28 6505080510 Bracket Counter C5 1 29 7165000610 Belt Counter C5 1 30 048553007611 Door Window (A) A1 1 31 048563007711 Door Window (B) A1 1 32 048563003011 Door Deck (A) A1 1 33 048563003712 Cover Mecha. C3,C2 2 35 5708007810 Deck Mecha. C3,C2 2 36 4648500610 Leaf Switch D5 3 37 046102025021 Chassis-Back F4 1 A 046102025031 Chassis-Back F4 1 B 046102025051 Chassis-Back F4 1 D 046102025051 Chassis-Back F4 1 E 38 4308003910 Cord-AC, Power E5 1 A, B 4308003910 Cord-AC, Power E5 1 C, D, 39 6518000111	1 1		•			
29	1 1					
31 048553007711 32 048563002911 33 048563002911 34 048685003722 35 5708007810 36 4648500610 264 Mecha. Mech					1	
32 048563002911 Door Deck (A)		048553007611	Door Window (A)	A1	1	
33 048563003011 34 048685003722 35 5708007810 36 4648500610 37 046102025021 046102025021 046102025031 046102025031 046102025051 046102025051 046102025051 046102025051 046102025051 046102025051 046102025051 046102025071 0461020125071 0461	31	048553007711	Door Window (B)	A1	1	
34 048685003722 Cover Mecha. C3,C2 2 35 5708007810 Deck Mecha.YMW47C-402 C4 1 D5 3 3 3 3 3 3 3 3 3						
35 5708007810 36 4648500610 37 046102025021 Chassis-Back F4	1 1	1				
36	1 1					
37						
046102025031						٨
046102025041	3/	1				
046102025051				1 1		
046102025061						
046102025071				1 ' '		
4308000430				1		
4308003610	38	4308003910	Cord-AC, Power	E5	1	A, B
39 6518000111 Stopper Cord F5 1 40 6123618310 Frame Side (R) C6 1 41 6122614810 Frame Side (L) E3 1 42 6503013210 Bracket PCB E4 1 43 7505200710 Heatsink REG TR B5 1 44 4438100410 Jack RCA (4P) C5 1 45 4628034310 Switch Power D2 1 46 4628053510 Switch Push (3 key) B4 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 Voltage Selector Switch E6 1 B 51 8119230063 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 </td <td></td> <td>4308000430</td> <td>Cord-AC, Power</td> <td>E5</td> <td>1</td> <td>C, D, F</td>		4308000430	Cord-AC, Power	E5	1	C, D, F
40 6123618310 Frame Side (R) C6 1 41 6122614810 Frame Side (L) E3 1 42 6503013210 Bracket PCB E4 1 43 7505200710 Heatsink REG TR B5 1 44 4438100410 Jack RCA (4P) C5 1 45 4628053510 Switch Power D2 1 46 4628053510 Switch Push (3 key) B4 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 51 4618000410 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3				1		E
41 6122614810 Frame Side (L) E3 1 42 6503013210 Bracket PCB E4 1 43 7505200710 Heatsink REG TR B5 1 44 4438100410 Jack RCA (4P) C5 1 45 4628053510 Switch Power D2 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 Voltage Selector Switch E6 1 B 51 8119230063 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 A4, A3, B3	1 1	1				
42 6503013210 Bracket PCB E4 1 43 7505200710 Heatsink REG TR B5 1 44 4438100410 Jack RCA (4P) C5 1 45 4628034310 Switch Power D2 1 46 4628053510 Switch Push (3 key) B4 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 51 4618000410 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S1 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 A4, A3, B3 A4, A3, B3						
43 7505200710 Heatsink REG TR B5 1 44 4438100410 Jack RCA (4P) C5 1 45 4628034310 Switch Power D2 1 46 4628053510 Switch Push (3 key) B4 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 A4, A3, B3 A3, B3				1 .		
44 4438100410 Jack RCA (4P) C5 1 45 4628034310 Switch Power D2 1 46 4628053510 Switch Push (3 key) B4 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 A4, A3, B3						
45						
46 4628053510 Switch Push (3 key) B4 1 47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 Voltage Selector Switch E6 1 B 52 6515000630 Holder Voltage E6 1 B S1 8119230063 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 A4, A3, B3			· ·			
47 3208045110 VR Rotary (50kA×2) B4 1 48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 A4, A3, B3				1		
48 2828042007 Transformer Power E4 1 49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 51 4618000410 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3			·			
49 6165131210 Shield Fence A5 1 50 8209540011 Nut Flange M4Y F3, E4 2 61 4618000410 Voltage Selector Switch E6 1 B 52 6515000630 Screw #2 PTC 3×6ZNB F2 8 S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 C1/4/5, B2, A4, A3, B3						
50 8209540011 Nut Flange M4Y F3, E4 2 51 4618000410 Voltage Selector Switch E6 1 52 6515000630 Holder Voltage E6 1 S1 8119230063 Screw #2 PTC 3×6ZNB F2 8 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 C1/4/5, B2, A4, A3, B3		1 :				
51 4618000410 Voltage Selector Switch E6 1 1 B 52 6515000630 Holder Voltage E6 1 1 B S1 8119230063 Screw #2 PTC 3×6ZNB F2 8 E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3						
S1 8119230063 Screw #2 PTC 3×6ZNB F2 E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×8ZNY E4, D2/5, B5 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×6ZNB F2 E4, D2/5, B5 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×6ZNB F2 E4, D2/5, B5 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×6ZNB F2 E4, D2/5, B5 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×6ZNB F2 E4, D2/5, B5 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×6ZNB Screw #2 BTC 3×6ZNB F2 E4, D2/5, B5 C1/4/5, B2, A4, A3, B3 Screw #2 BTC 3×6ZNB Screw #2 BTC 3×6Z				E6		В
S2 8109230081 Screw #2 BTC 3×8ZNY E4, D2/5, B5 32 C1/4/5, B2, A4, A3, B3	1 1		Holder Voltage		1	В
C1/4/5, B2, A4, A3, B3				ł		
A4, A3, B3	S2	8109230081	Screw #2 BTC 3×8ZNY		32	
			<i>:</i>			
33 8139230081 Screw #Z VVP1C 3×8ZNY C5/6, E3 4	00	045000004	C #0 \A/DTO O - OZAN/		,	
	33	010923UU8T	Screw #Z VVPTC 3×8ZNY	C5/0, E3	4	

No.	Parts No.	Description	Position	Q'ty	Remark
S4	8119126061	Screw #1 PTC 2.6×6ZNB	C3, C4	7	
S5	8159440083	Screw WSAM 4×8ZNB	E2	4	
S6	8159430081	Screw WSAM 4×8ZNY	F5	2	

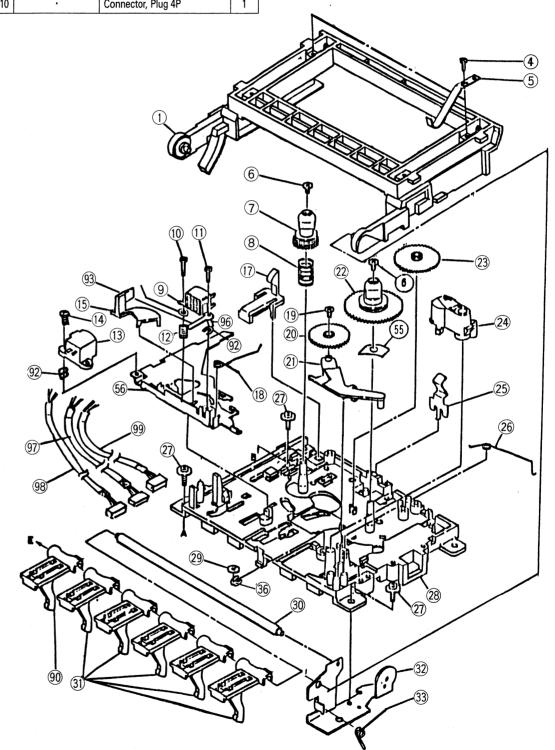
Exploded View of Cabinet & Chassis



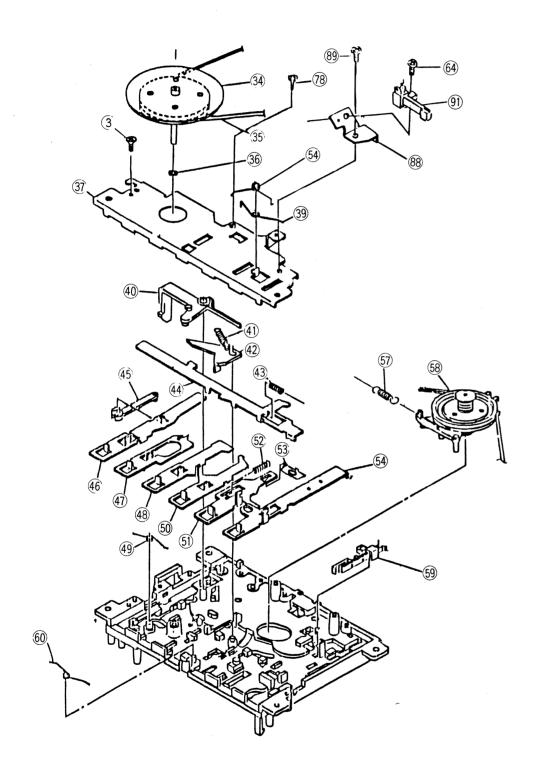
Part List & Exploded View of Deck Mechanism (I)

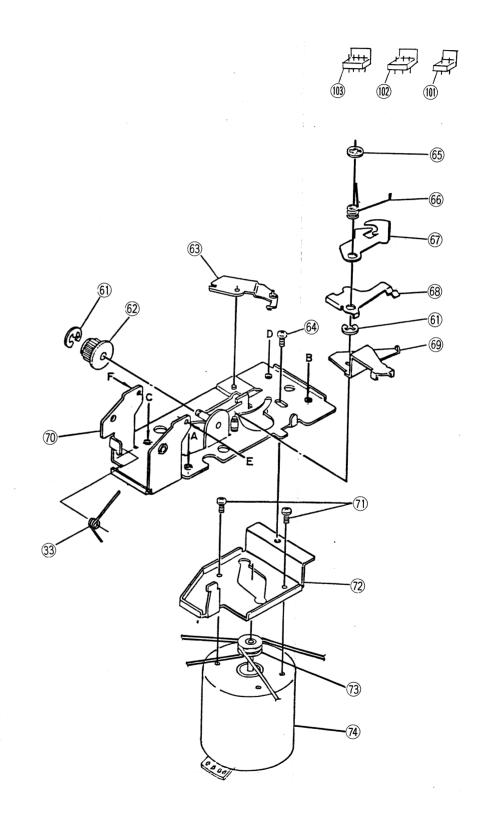
		Description					Description		T
No.	Parts No.		,	Q'ty	No	Parts No.	ļ	T	Q't
		Parts Code	Parts Name	-			Parts Code	Parts Name	
1	5708906500	PBC 1280K	Cassette Case	2	50	5708906760	PBE 17072	REW Lever	2
2		•	Not used!	.	51	5708902130	PBE 16686	Play Lever	2
3	5708906510	PGSL 30A2608K	L.Screw	2	52	5708906770	PBE 6865	H/D Base Spring	2
4	5708906520	PGST20A2005K	T.Screw	4	53	5708902150	PBE 17083	REC Stop Lever	1
5	5708901650	PBE 14715	Keep Plate	4	54	5708902160	PBE 16676	REC Lever	1
6	5708901660	PBE 17014	Bush B	4	55	5708906780	PBE 17137	T.Spring	2
7	5708901670	PBE 16646	S.Reel	2	56	5708906790	PBC 1257	Head Base B	1
8	5708901680	PBE 6602	C.Spring	2	57	5708906800	PBE 6689	Power Arm Spring	1
9	5708906530	MS15RBA2N1K	R/P Head	2	58	5708906810	PBD 0942	Power Arm	2
10	5708906540	PGSN10A2008K	N.Screw	2	58-1	ł.	PBE 17170	Felt	2
11	5708906550	PGSP10A2003K	P.Screw	2	58-2		PBE 17096	Pully	2
12 '	5708901720	PBE 6604	Azimuth C Spring	2	58-3		PBE 17101	Felt Pully	2
13	5708906560	LE15AC1K	E.Head	1	58-4		PBE 17098	Shaft	2
14	5708906570	PGSD20A2006K	D.Screw	1	58-5		PBE 17094	Stopper	2
15	5708901750	PBE 16647	Tape Sensor	2	58-6		PBE 6679(B)	Spring	2
16	•		Not used!		58-7		PGWP75×110013	P.Washer	2
17	5708901770	PBE 16643	Interlock arm	1	58-8		PBD 1887	Power Arm	2
18	5708901780	PBE 6911	Pinch Spring	2	58-9		PBE 17095	Gear	2
19	5708901790	PBE 14927	Bush	2	59	5708902210	MSW 1342NCV	Main Switch	2
20	5708901800	PBE 16641	Idler Gear	2	60	5708902220	PBE 6607	Pause S/E Spring	2
21	5708901810	PBD 1874	Idler Arm	2	61	5708902230	PGRE30A	E.Spring	3
22	5708901820	PBE 03163	T. Reel Ass'y	2	62	5708902240	PBE 15524	Gear	3
22-1	5708906580	PBE 16627	T. Reel Stand	2	63	5708902250	PBE 03265	P Connect Plate Lever Ass'y	1
22-2	5708906590	PBE 17752	Felt	2	63-1		PBE 17067	P Connect Lever	1
22-3	5708906600	PBE 17263	T. Reel	2	63-2	1	PBE 17077	Shaft A	1
22-4	5708906610	PBE 6606	Spring	2	64	5708902260	PGSD10A2605	D.Screw	2
22-5	5708906620	PBE 17551	T. Reel Gear F.Gear	2	65 66	5708902270	PGRS30P	CS Spring	1
23	5708901830 5708906630	PBE 16640 PBE 03560	Pinch Arm Ass'y	2 2	67	5708902280 5708902290	PBE 6688 PBE 17066	Connect Spring Lock Plate	1
24 24-1	5708900030	PBD 10653	Pinch Arm	2	68	5708902300	PBE 17068	Unlock Plate	1 1
24-1	5708906640	PBE 17174	Pinch Roller	2	69	5708902300	PBD 10556	Connect Lever	1
24-3	5708901843	PBE 17256	Roller Shaft	2	70	5708906820	PBE 03646	Connect Plate A Ass'y	1
25	5708901850	PBE 17000	Cassette Spring	2	70-1	1	PBD 10557K	Connect Plate A	
26	5708901860	PBE 6610	Earth Spring	2	70-2		PBE 17078	Shaft.B	1
27	5708906650	PGSD15A2606K	D.Screw	6	70-3		PBE 17658	Damper Shaft	1
28	5708906660	PBD 01085	Chassis Ass'y	2	71	5708906830	PGSP11A2604K	P.Screw	2
28-1	5708906670	PBB 1146K	Base	2	72	5708906840	PBE 17073K	Motor Bracket	1
28-2	5708901900	PBE 17296	Capstern Metal	4	73	5708906850	PBE 17705	Motor Pully.W	1
29	5708901910	PGWN16X060040S	N.Washer	2	74	5708906860	EG30YD2BK	Motor	1
30	5708906680	PBE 17107K	Button Shaft	2	75	5708906870	PBE 5277	Belt	1
31	5708901930	PBE 2966	Button Lever	10	76	5708902410	PBE 17070	Pause Lever.W	1
32	5708906690	PBE 17076K	Button Bracket.R	1	77			Not used !	
33	5708901950	PBE 6690	Spring	2	78	5708902530	PBE 17112	Bush C	2
34	5708906700	PBE 03600	Fly Wheel Ass'y	2	79	5708902440	PBE 5239	Belt	1
34-1	5708906710	PBE 17099K	Fly Wheel Ring	4	80	5708902450	PBC 1236	Head Base	1
34-2	5708901963	PBE 17100	Capstern Shaft	2	81	5708902460	PBE 16624	Tape Guide	1
34-3	5708901961	PBD 10567	Fly Wheel W	2	82	5708906880	PBE 03635	Button Bracket L Ass'y	1
34-4	5708906720	PGSL16A2608K	L.Washer	4	82-1		PBE 17075K	Button Bracket L	1
35	5708906730	PBE 5276	Belt	1	82-2		PBE 17658	Damper Shaft	1
36	5708901980	PGWP21X040013	P.Washer	3	83	5708902480	PBE 17140	Spacer	1
37	5708901990	PBD 1872	Back Plate	2	84	5708902490	PBE 6847	Spring	1
38	5708902000	PBE 6687	Spring	1	85		•	Not used !	
39	5708902010	PBE 6618	Spring	1	86			Not used !	
40	5708902020	PBE 16644	Eject Lever	2	87	5708902520	PGWF22A050020	F.Washer	2
41	5708902030	PBE 6831	Auto Stop Spring	2	88	5708906890	PBE 17300	Switch Plate	1
42	5708902040	PBE 16619	S.Arm	2	89	5708906900	PGSD10A2004K	D.Screw	1
43	5708906740	PBE 6617	Function Spring	2	90	5708902540	PBE 2969	Button Lever.R	1
44	5708902060	PBD 1873	Function Lever	2	91	5708902210	LSA 1119P	Leaf Switch	1
45 40	5708902070	PBE 16625	Pause Arm	1	92	5708906910	PBE 17501	Spacer	3
46	5708902080	PBE 16681	Pause Lever	2	93	5708902620	PBE 3084	Lug Plate	2
47	5708902090	PBE 16680	S/E Lever	2	94			Not used !	:
48 40	5708902100	PBE 17071	FF Lever W	2 2	95 96	E700006000	DDE 14710	Not used !	;
49	5708906750	PBE 6614	FF/REW Lever W	4	30	5708906920	PBE 14710	Lug Plate	1

No.	Parts No.	Description		
	raits No.	Parts Code	Parts Name	Q'ty
97	4358502260	•	Connector, Ass'y 2P	1
98	4358503260		Connector, Ass'y 3P	1
99	4358503261	•	Connector, Ass'y 3P	1
100	4358504401	•	Connector, Ass'y 4P	1
101	4428517510	•	Connector, Plug 2P	1
102	4428517610	•	Connector, Plug 3P	2
103	4428517710	•	Connector, Plug 4P	1

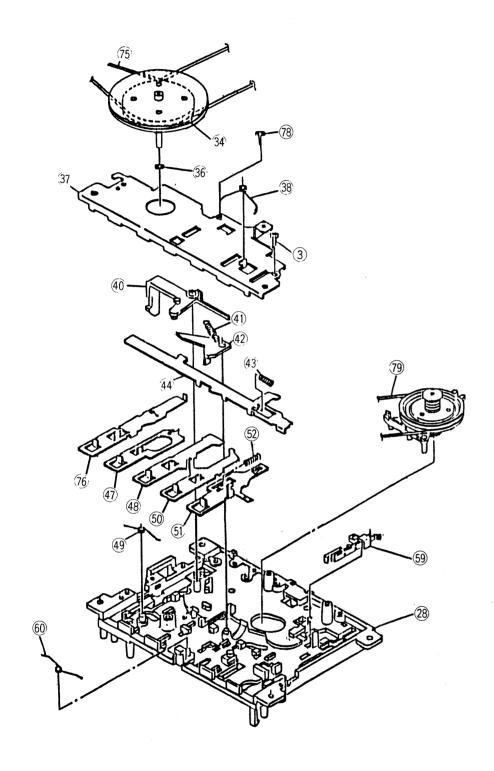


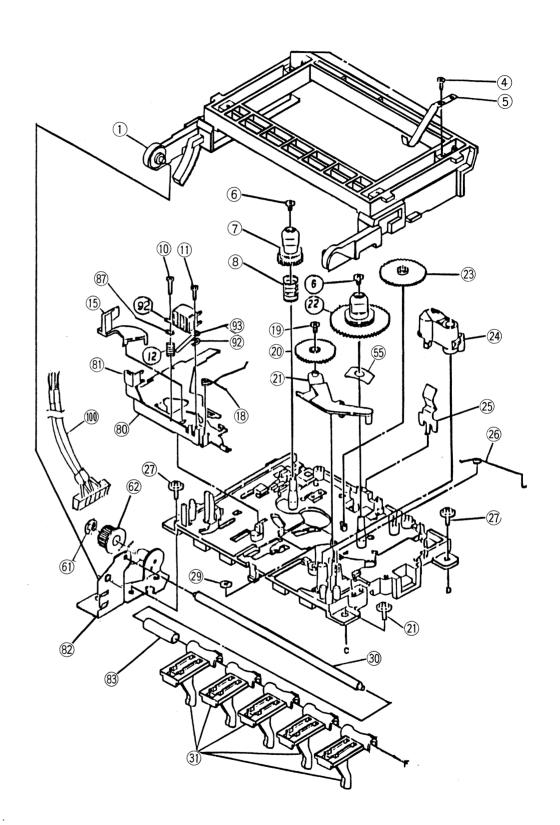
Exploded View of Deck Mechanism (II)



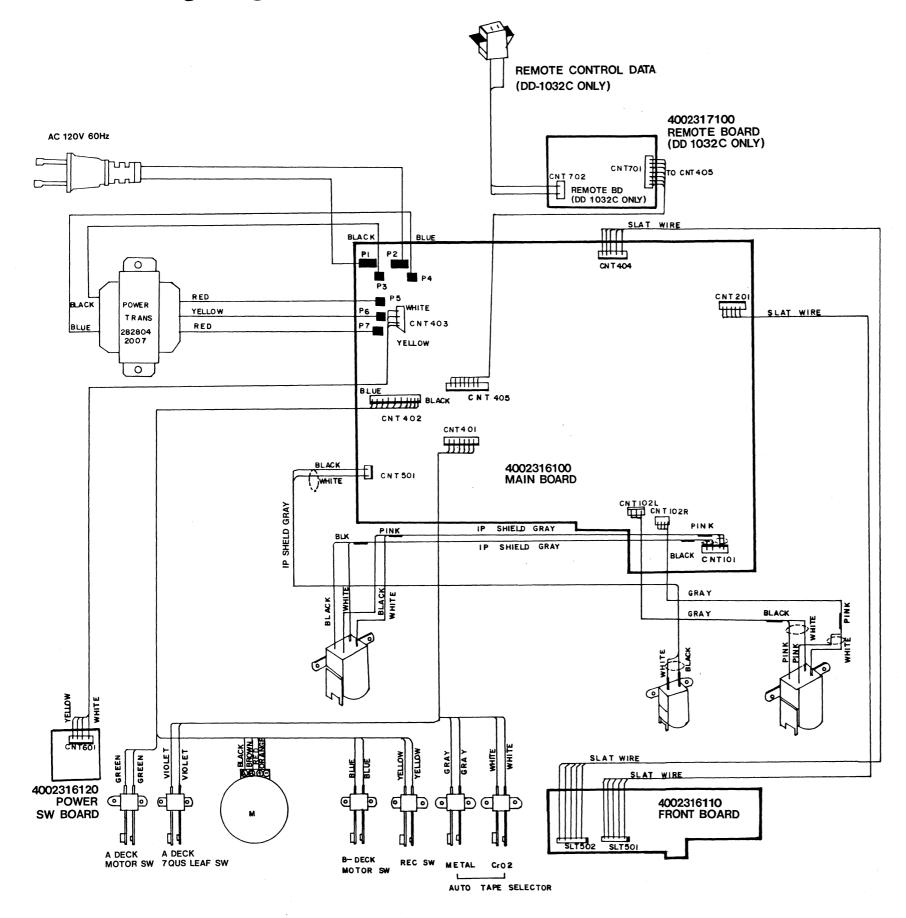


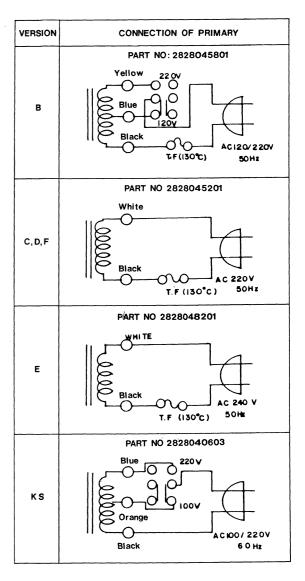
Exploded View of Deck Mechanism (III)





Point to Point Wiring Diagram





VEDO!ON	POWER TRANSFORMER			
VERSION	PART NO	REMARK		
Α	2828042007	AC120V 60Hz		
C,D,F	2828045801	AC120V/220V50Hz		
E	2828045201	AC240V50Hz		
K,S	2828040603	AC100V/220V60Hz		

VERSION	FUSES			
VENSION	PART NO	REMARK		
K.S	5508211630	0.5A/250V		
K.3	5508211130	0.2A/250V		

Block Diagram

